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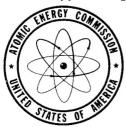
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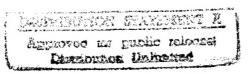
TEST AND EVALUATION OF VIBRATOR POWER SUPPLY

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#### INSTRUMENTATION

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#### TEST AND EVALUATION OF VIBRATOR POWER SUPPLY

by

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### ABSTRACT

Results of Tests on the Victoreen Vibrator Power Supply and performance curves given.

### Description of Unit:

A sealed, compact unit for producing B plus and high voltage for a survey meter. This unit, in conjunction with three 1.5 volt batteries, could replace three 300 volt and one  $67\frac{1}{2}$  (or 45 volt) batteries.

### Physical Specifications:

Dimensions:  $2\frac{1}{4}$ "x 2-1/8"x2-7/8" (3-5/8" including studs)

Weight: 1 pound

Mounting: Four studs on top and four on bottom

Connection: Four fusite terminals on bottom

Remarks: The can is soldered closed forming an air tight seal.

## Electrical Specifications:

Nominal ratings: Input + 4.5 to 3.3 volts input d.c.

Output + 900 volts d.c. + 55 volts d.c.

Figures one and two show the operation of the unit under varying conditions of load and input voltage.

The unit operates off three  $l^{\frac{1}{2}}$  volt batteries and has a drain of 63 milliamps throughout the load range.

# Discussion of Results:

This unit is convenient and should be applicable to any application requiring high voltage at low current and a B plus voltage for a trigger pair or amplifier. While this unit was probably designed for GM tube circuits, it could be applied to a photomultiplier. The input requires three 12 volt batteries, and unless Mallory mercury cells are user these require a considerable amount of space.

The unit is sealed so that service would be difficult. It could be used as a disposable unit if its price is reasonable.

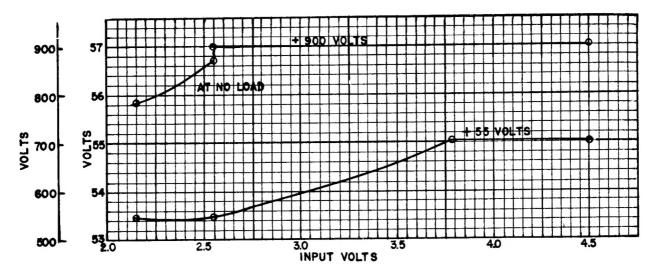


Fig. 1.

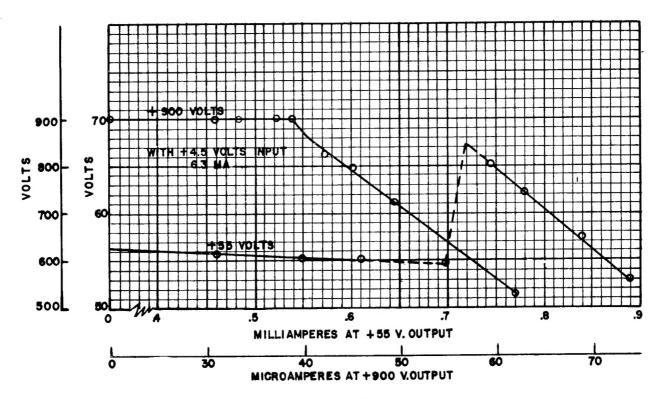


Fig. 2.